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implemented we are currently working on the **query optimizer** that transforms queries with path we are currently developing a rule-based **query optimizer** [5]Acknowledgements Peter Lockemann and relations are introduced as a means for **optimizing query** processing in object-oriented database
pi3.informatik.uni-mannheim.de/publications/sigmod90.ps

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In [13] the problem is addressed in its **query optimiz**ation form in the context of aggregations and another two related problems are the multiple-**query optimiz**ation problem [26, 27] the caching problem is additionally considered. The problem of **optimizing query** evaluation in the presence of materialized
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over the disk) and the update time for the **query optimize**d policy is poor (since reads are intermixed a list is generated for each update. For the **query optimize**d policy, the portion of the list written on which range from optimizing update time to **optimizing query** performance is described. We quantitatively
db.stanford.edu/pub/tomasic/1993/stan.cs.tn.93.1.ps

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For this purpose we developed a rule-based **query optimizer** for GOM that generates a query evaluation cost model is being incoporated into the **query optimizer** for comparing the evaluation costs of relations are introduced as a means for **optimizing query** processing in object-oriented database
www.cs.brown.edu/courses/cs227/papers/b3/access.ps

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for lazy materialization. The ROLEX **query optimizer** uses a characterization of the navigation including its model of query execution and the **query optimizer**. We demonstrate with a performance study the of the ROLEX approach and the importance of **optimizing query** execution for navigation. 1 Introduction
www.bell-labs.com/user/bohannon/Papers/RolexVLDB.ps

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data warehousing, materialized views, **query optimiz**ation 1 Introduction With the growing number implemented in the same module in existing **query optimizer**s [G93]We present a set of query rewrite

and join. For this reason, rewrite rules for **optimizing query** trees almost never involve aggregation
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techniques: signature files and pat-trees for **optimizing query** evaluation in document databases. Signature
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for future database applications [1]Parallel **query optimiz**ation is the parallelization of an input query
2 analyzes different approaches to parallel **query optimiz**ation and dynamic load balancing. Section 3
www.ens-lyon.fr/~hkosch/IEEE2.ps.gz

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part of the actual Erlang syntax, whereas the **optimizing query** compiler and evaluator are regular Erlang
databases. Queries are compiled by an **optimizing query** compiler which has been integrated with the
from low level storage management to the **optimizing query** compiler, consists of less than 15000 lines
www.ericsson.se:800/cslab/~klacke/iss.ps

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ontological mismatches, semantically **optimizing query**-plans using known integrity constraints
www-lp.doc.ic.ac.uk/UserPages/staff/ft/PAPERS/codata.ps.Z

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This paper describes several methods for **optimizing query** reformulation in a PDMS, and evaluates their
environment, di#erent metrics can be used to **optimize query** reformulation in a PDMS. The optimizations
TECHNIQUES We now describe the methods for **optimizing query** reformulation in a PDMS. For each method
we
www.cs.washington.edu/homes/igor/myweb/../research/sigmod2004.pdf

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this gap. In particular, we are interested in **optimizing query** performance, as measured by query
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ffl Present the experimental results of **optimizing query** types from the OO7 benchmark on the
ftp.eecs.umich.edu/techreports/cse/1995/CSE-TR-241-95.ps.Z

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1 Multidatabase systems: Query optimization in multidatabase systems
Qiang Zhu
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings

A multidatabase system (MDBS) integrates information from autonomous local databases managed by heterogeneous database management systems (DBMS) in a distributed environment. For a query involving more than one database, global query optimization should be performed to achieve good overall system performance. The significant differences between an MDBS and a traditional distributed database system (DDBS) make query optimization in the former more challenging than in the latter. Challenges for qu ...

Keywords: adaptive query optimization, distributed query optimization, multidatabase system, parametric query optimization, probing query, query processing, semantic query optimization

2 Logic-based approach to semantic query optimization
Upen S. Chakravarthy, John Grant, Jack Minker
June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2
Full text available: pdf(3.46 MB) Additional Information: full citation, abstract, references, citings, index terms

The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved the correctness of a method for semantic query optimization in deductive databases couched in first-order logic. This paper consolidates the major results of these papers emphasizing the techniques and their applicability for optimizing rel ...

3 Parametric query optimization
Yannis E. Ioannidis, Raymond T. Ng, Kyuseok Shim, Timos K. Sellis
May 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 2
Full text available: pdf(378.53 KB) Additional Information: full citation, abstract, citings, index terms

In most database systems, the values of many important run-time parameters of the system, the data, or the query are unknown at query optimization time. Parametric query

optimization attempts to identify at compile time several execution plans, each one of which is optimal for a subset of all possible values of the run-time parameters. The goal is that at run time, when the actual parameter values are known, the appropriate plan should be identifiable with essentially no overhead. We present a g ...

4 Description logics for semantic query optimization in object-oriented database systems

Domenico Beneventano, Sonia Bergamaschi, Claudio Sartori
March 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 1

Full text available: pdf(406.56 KB) Additional Information: full citation, abstract, references, index terms

Semantic query optimization uses semantic knowledge (i.e., integrity constraints) to transform a query into an equivalent one that may be answered more efficiently. This article proposes a general method for semantic query optimization in the framework of Object-Oriented Database Systems. The method is effective for a large class of queries, including conjunctive recursive queries expressed with regular path expressions and is based on three ingredients. The first is a Description Logic, ODL
Keywords: Semantic query optimization, description logics, integrity constraints rules, query rewriting method, semantic expansion of a query, subsumption

5 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available: pdf(2.84 MB) Additional Information: full citation, references, citings, index terms

6 A method for automatic rule derivation to support semantic query optimization

Michael Siegel, Edward Sciore, Sharon Salveter
December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Full text available: pdf(2.73 MB) Additional Information: full citation, abstract, references, citings, index terms

The use of inference rules to support intelligent data processing is an increasingly important tool in many areas of computer science. In database systems, rules are used in semantic query optimization as a method for reducing query processing costs. The savings is dependent on the ability of experts to supply a set of useful rules and the ability of the optimizer to quickly find the appropriate transformations generated by these rules. Unfortunately, the most useful rules are not always th ...

Keywords: integrity constraint, learning, transformation heuristic

7 Efficient and extensible algorithms for multi query optimization

Prasan Roy, S. Seshadri, S. Sudarshan, Siddhesh Bhobe
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(197.59 KB) Additional Information: full citation, abstract, references, citings, index terms

Complex queries are becoming commonplace, with the growing use of decision support systems. These complex queries often have a lot of common sub-expressions, either within a single query, or across multiple such queries run as a batch. Multiquery optimization aims at exploiting common sub-expressions to reduce evaluation cost. Multi-query optimization has hither-to been viewed as impractical, since earlier algorithms were exhaustive, and explore a doubly exponential search space.

In t ...

8 Query optimization on local area networks
Alan R. Hevner, O. Q. Wu, S. B. Yao
January 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 1

Full text available: pdf(1.75 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Local area networks are becoming widely used as the database communication framework for sophisticated information systems. Databases can be distributed among stations on a network to achieve the advantages of performance, reliability, availability, and modularity. Efficient distributed query optimization algorithms are presented here for two types of local area networks: address ring networks and broadcast networks. Optimal algorithms are ...

9 Stochastic query optimization in distributed databases
P. E. Drenick, E. J. Smith
June 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 2

Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, index terms, review

Many algorithms have been devised for minimizing the costs associated with obtaining the answer to a single, isolated query in a distributed database system. However, if more than one query may be processed by the system at the same time and if the arrival times of the queries are unknown, the determination of optimal query-processing strategies becomes a stochastic optimization problem. In order to cope with such problems, a theoretical state-transition model is presented that treats the s ...

Keywords: distributed query processing, state-transition model, stochastic query optimization

10 Iterative dynamic programming: a new class of query optimization algorithms
Donald Kossmann, Konrad Stocker
March 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 1

Full text available: pdf(955.89 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The query optimizer is one of the most important components of a database system. Most commercial query optimizers today are based on a dynamic-programming algorithm, as proposed in Selinger et al. [1979]. While this algorithm produces good optimization results (i.e, good plans), its high complexity can be prohibitive if complex queries need to be processed, new query execution techniques need to be integrated, or in certain programming environments (e.g., distributed database systems). In ...

Keywords: dynamic programming, greedy algorithm, iterative dynamic programming, plan evaluation function, query optimization, randomized optimization

11 OPT++ : an object-oriented implementation for extensible database query optimization
Navin Kabra, David J. DeWitt
April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Full text available: pdf(167.26 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we describe the design and implementation of OPT++, a tool for extensible database query optimization that uses an object-oriented design to simplify the task of implementing, extending, and modifying an optimizer. Building an optimizer using OPT++

makes it easy to extend the query algebra (to add new query algebra operators and physical implementation algorithms to the system), easy to change the search space, and also to change the search strategy. Furthermore, OPT++ comes equipp ...

Keywords: Extensibility, Object-relational databases, Query optimization, Software architecture

12 Multiple-query optimization

Timos K. Sellis

March 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 1

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Some recently proposed extensions to relational database systems, as well as to deductive database systems, require support for multiple-query processing. For example, in a database system enhanced with inference capabilities, a simple query involving a rule with multiple definitions may expand to more than one actual query that has to be run over the database. It is an interesting problem then to come up with algorithms that process these queries together instead of one query at a time. Th ...

13 Cache investment: integrating query optimization and distributed data placement

Donald Kossmann, Michael J. Franklin, Gerhard Drasch, Wig Ag

December 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 4

Full text available: pdf(210.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Emerging distributed query-processing systems support flexible execution strategies in which each query can be run using a combination of data shipping and query shipping. As in any distributed environment, these systems can obtain tremendous performance and availability benefits by employing dynamic data caching. When flexible execution and dynamic caching are combined, however, a circular dependency arises: Caching occurs as a by-product of query operator placement, but query operator pl ...

Keywords: cache investment, caching, client-server database systems, data shipping, dynamic data placement, query optimization, query shipping

14 Multidatabase systems: Query optimization using fuzzy set theory for multidatabase systems

Qiang Zhu, P. Å. Larson

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**

Full text available: pdf(761.60 KB) Additional Information: full citation, abstract, references, citings

One of the challenges for global query optimization in a multidatabase system (MDBS) is that some local optimization information may not be accurately known at the global level because of local autonomy. In this paper, we introduce a fuzzy query optimization approach that is based on fuzzy set theory, introduced by Zadeh in the 1960s, to tackle the challenge. We describe the problem of fuzzy query optimization and compare the fuzzy optimization approach with the traditional (crisp) optimization ...

Keywords: fuzzy optimization, fuzzy set, multidatabase system, query optimization

15 Query optimization in a memory-resident domain relational calculus database system

Kyu-Young Whang, Ravi Krishnamurthy
March 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 1

Full text available: pdf(2.46 MB) Additional Information: full citation, abstract, references, citings, index terms

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

16 Query processing: A characterization of the sensitivity of query optimization to storage access cost parameters

Frederick R. Reiss, Tapas Kanungo
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(255.35 KB) Additional Information: full citation, abstract, references, index terms

Most relational query optimizers make use of information about the costs of accessing tuples and data structures on various storage devices. This information can at times be off by several orders of magnitude due to human error in configuration setup, sudden changes in load, or hardware failure. In this paper, we attempt to answer the following questions:• Are inaccurate access cost estimates likely to cause a typical query optimizer to choose a suboptimal query plan?• If an optimizer ...

Keywords: autonomic computing, computational geometry, databases, parametric query optimization, storage systems

17 A piggyback method to collect statistics for query optimization in database management systems

Qiang Zhu, Brian Dunkel, Nandit Soparkar, Suyun Chen, Berni Schiefer, Tony Lai
November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(328.82 KB) Additional Information: full citation, abstract, references, citings, index terms

A database management system (DBMS) performs query optimization based on statistical information about data in the underlying data-base. Out-of-date statistics may lead to inefficient query processing in the system. Existing solutions to this problem have some drawbacks such as heavy administrative burden, high system load, and tardy updates. To overcome these drawbacks, our new approach, called the piggyback method, is proposed in this paper. The key idea is to piggyback some additional retriev ...

Keywords: access method, cost estimation, database management system, piggyback analysis, query optimization, statistics collection

18 On compile-time query optimization in deductive databases by means of static filtering

Michael Kifer, Eliezer L. Lozinskii
September 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 3

Full text available: pdf(3.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We extend the query optimization techniques known as algebric manipulations with relational expressions [48] to work with deductive databases. In particular, we propose a

method for moving data-independent selections and projections into recursive axioms, which extends all other known techniques for performing that task [2, 3, 9, 18, 20]. We also show that, in a well-defined sense, our algorithm is optimal among the algorithms that propagate data-independent selections through recursion.

Keywords: dataflow, deductive databases, filtering, fixpoint, graph representation, inference, projection, recursive rules, selection

19 An overview of query optimization in relational systems

Surajit Chaudhuri

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(1.42 MB) Additional Information: full citation, references, citings, index terms

20 Special issue in parallelism in database systems: Considering data skew factor in multi-way join query optimization for parallel execution

Kien A. Hua, Yo Lung Lo, Honesty C. Young

July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 3

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings

A consensus on parallel architecture for very large database management has emerged. This architecture is based on a shared-nothing hardware organization. The computation model is very sensitive to skew in tuple distribution, however. Recently, several parallel join algorithms with dynamic load balancing capabilities have been proposed to address this issue, but none of them consider multi-way join problems. In this article we propose a dynamic load balancing technique for multi-way joins, and i ...

Keywords: load balancing, multi-way join, parallel-database computer, query optimization